

# Chemistry 133 – Preparation for Chemistry – Fall 2022

**Course Number:** 01:160:133

**Section:** 01-06

**Course Portal:** Canvas: <https://canvas.rutgers.edu/>

## COURSE DESCRIPTION AND LEARNING GOAL

This course is for those who find they need more preparation to succeed in Chemistry 161, Chemistry 165, or Chemistry 159. Chemistry 133 is designed to strengthen your background in the basics of chemistry, your problem-solving ability, and your quantitative reasoning skills. We will prepare you to successfully complete Chemistry 161 in the spring semester – or at some future point.

## COURSE COORDINATOR AND LECTURER

Dr. Manese Rabeony. Wright Rieman Lab Room 370, Tel: 884-445-8609; e-mail: [rabeony@chem.rutgers.edu](mailto:rabeony@chem.rutgers.edu)

## MATERIALS REQUIRED

- *Introductory Chemistry*, 6<sup>th</sup> Edition by Nivaldo J. Tro, Pearson, 2018. The primary course text - Lectures will follow the sequence of topics.
- *Scientific calculator* (exponentials, powers, roots, logarithms, etc.). Please bring to every class.

## CLASSROOM MANAGEMENT

We will be using Canvas (<https://canvas.rutgers.edu>) as a classroom management. You should check this site regularly. If you check it now, you will find several documents posted. If you are registered and a Rutgers Student, you will automatically be a “member” of the online class. You will need your NetID to login. During the course many additional documents will be posted on the web site including lecture notes, practice exams, and useful information or explanations about important topics.

We will routinely use Canvas to post announcements. You must adjust the Canvas settings to make sure that these announcements will automatically be sent to you by Rutgers email. Click on **account** tab (upper left) then click on **notifications**. Look at the “announcement” line in the Course Activity chart and in the “email address” click on the left side to be sure there’s a green checkmark. This green checkmark on the left side means that all announcements will be immediately sent to you by Rutgers email. Lecture notes will be available on Canvas.

## LECTURES

There are two 80-minute lectures per week.

Sections	Lecture Date and Time	Location
1, 2	M, W (2:00 – 3:20 pm)	SEC-202
3, 4, 5, 6	M, Th (8:30 – 9:50 am)	LOR-022

The "Course Schedule" lists topics to be covered during each lecture. Please do the relevant reading in the text before the corresponding lecture; this will enhance your ability to absorb the concepts introduced and follow the problems being solved. You are responsible for all material discussed in lecture whether or not it is covered in the book. You are also responsible for announcements made and handouts distributed in lecture. We recommend that you attend the lecture section for which you are scheduled. However, if necessary, on occasion, you may attend the corresponding lecture on a different time. If you cannot attend either lecture section due to illness or personal emergency, contact a fellow student for handouts, notes, and assignments and check the Canvas site for announcements.

## RECITATION

You are required to attend one 80-minute recitation section per week.

SECTION	DAY/TIME	LOCATION
1	Th 4 2:00 – 3:20 pm	LSH B110
2	Th 5 3:50 – 5:100 pm	LSH A121
3	Tu 3 12:10 – 1:30 pm	C/D TH 101
4	Tu 4 2:00 – 3:20 pm	C/D RAB 110B
5	Tu 3 12:10– 1:30 pm	C/D RAB 110B
6	Th 3 12:10 – 1:30 pm	C/D HCH-118

Recitation will allow you to interact with a member of the instructional staff in a small group setting. The class will focus on problem-solving; the instructor will go over homework problems in depth and will also reinforce concepts and skills by introducing new problems. Recitation is the time for you to ask questions – questions that will occur to you only if you have put forth your best effort on each week’s material before class. Furthermore, preparation for and participation in class will obviously affect your instructor’s evaluation of you. If your course grade lies at a borderline at the end of the semester, a positive evaluation may make the difference between one letter grade and the next.

## COURSE SCHEDULE AND PRACTICE PROBLEMS

The "Course Schedule" describes what sections of the textbook are to be covered in each lecture. There is a set of suggested textbook problems associated with each lecture found in the course schedule. These problems are not graded, but doing the problems is important to reinforce your understanding of the material. These suggested problems illustrate the types of problem-solving skills that you will see on the exams. Most of the suggested problems are odd-number problems, for which there is an answer in the back of the textbook. Generally, the more problems you do, the better your understanding of the course concepts. You should feel free to ask any recitation instructor or lecturer about any of these problems. Additionally, more practice problems can be found on Canvas under “Review Problems” in the Course Information

## HOMEWORK

Please keep up with the material by studying the text, the lecture notes and by doing the homework problems listed in the course schedule. When doing problems, use the study guide only as a last resort. If you had to use the study guide to solve a problem, go back to that problem in a couple of days and try to solve it on your own. Use the recitation section to enhance your level of understanding. There will be homework review problems posted on the course website that you are highly encouraged to work on. The answers for these problems will be discussed in recitation section.

## ONLINE HOMEWORK

Part of your grade is determined by online homework that will be assigned every week - with the exception of the exam weeks - and due every Sunday at 6:00 pm. Individual extension cannot be granted.

## QUIZZES

There will be five quizzes during recitations accounting for a total of 100 points towards the cumulative point score. All quizzes will emphasize the material as listed on the course schedule. Sharing of calculators during quizzes is forbidden. If you miss or anticipate missing a recitation quiz for a legitimate reason (a reason acceptable to your recitation instructor), you must try to make up the quiz during another recitation section meeting that same day. If this is not at all possible, contact your recitation instructor for make-up or credit within three days of the missed quiz date. Please note that if you haven’t spoken with your recitation instructor within three days of a missed quiz you may not receive any credit at all. All quizzes will be counted towards your grade. None will be dropped, and an absence counts as zero. A make-up quiz grade will be credited towards your course grade only if pre-approval has been obtained from your recitation instructor. **DO NOT ASK THE LECTURER FOR PERMISSION TO MAKE UP A QUIZ!** The permission to make up quizzes is entirely at the discretion of the recitation instructor.

## EXAMINATIONS

There will be two examinations, a midterm during a common hour exam period and a final during the Chemistry group exam time.

EXAM	DATE	TIME	LOCATION
Midterm	Sun Nov 6	6:10 - 7:30 pm	HCK-138
Final	M Dec 20	12:00 pm – 3:00 pm	TBA

In accordance with university policy, the following situations, and only the following, constitute official conflicts with an exam.

1. You are registered for another course that meets at the time of the exam.
2. You have another common hour exam scheduled at the same time.
3. You must attend athletic practice required by a coach.
4. You are observing a religious holiday.

If you have an official conflict with an hourly exam, please submit

1. Conflict Request Form (posted on Canvas)
2. Required documentation. The deadline for submission of a conflict request for the midterm is Mon Nov 2. We will not honor requests submitted late or without documentation. We will schedule you for a conflict exam at another time during the day of the exam, possibly late in the evening. If you are approved for such a make-up, your name will appear on a list on the course website.

If you miss an examination for unforeseeable medical reasons, contact Dr. Rabeony as soon as possible. No medical excuse will be considered unless written supporting documents are provided. There are normally no make-ups for missed hourly exams. Your final exam will be weighted more heavily to substitute for the missing grade, assuming that your documentation is acceptable. An unexcused absence will count as zero.

Conflict policy for the final exam will follow University policy. Any foreseeable conflicts should be reported by the week of December 9. Use the Conflict Request Form. VACATION PLANS WILL NOT BE CONSIDERED A CONFLICT under any circumstances, so please arrange your travel accordingly. If you miss the final due to an official conflict or verifiable illness, you must make up the exam. A make-up will be held during the January winter break.

## GRADING

There are a total of 440 points which can be accumulated in this course, distributed as follows:

	Points
Quizzes	100
Homework	40
Midterm	100
Final	200
Total	440

## LETTER GRADES

There are no grade curves in the class – grades are assigned based on the overall percentage score according to a final scale to be decided at the end of the course. An approximate idea of the grading scale would be as follows:

A ( $\geq 90\%$ ); B (80-89%); C (65-79%); D (55-64%); F ( $< 55\%$ ).

Missing more than one midterm for any reason (excused or unexcused), missing the final exam, a grade of  $< 35\%$  on the final exam, or breach of academic integrity will result in an automatic F for a final grade.

## **DISABILITY SERVICES**

Disability Services provides student-centered and student-inclusive programming in compliance with the Americans with Disabilities Act of 1990, the Americans with Disabilities Act Amendments of 2008, Section 504 of the Rehabilitation Act of 1973, Section 508 of the Rehabilitation Act of 1998, and the New Jersey Law against Discrimination. For any student who has been deemed eligible for special services, Rutgers provides accommodations and/or modifications in order to ensure that all students have an equal opportunity to participate in all Rutgers programs, services, and activities. Accommodations may include extended testing time, assigned note-takers, recorders, etc. For more information, please refer to the Rutgers Office of Disability Services. Please note that students must try to present documentation of any accommodations as soon as possible, before the day of an exam.

## **ACADEMIC INTEGRITY**

All University policies on academic integrity will be strictly enforced. Dishonesty or the facilitation of dishonesty of others will meet with serious consequences. The instructional staff has the right to retest any student whose performance on a particular test seems inconsistent with his/her other work.

## **STUDY HINTS**

- Do the assigned reading before each lecture. This practice will greatly enhance your ability to follow and retain material covered in lecture and will allow you to focus on the problem-solving techniques explained in class.
- Reread the text after lecture, concentrating on areas that remain unclear.
- Review your lecture notes after each class. Try to work on your own the problems which were done in class. Note any areas of confusion and be sure to ask about them. Don't procrastinate!
- Do the assigned homework after each lecture.
- Redo the problems that caused difficulty. Once again, do not use your book or notes until after you have worked the problem completely. Note those exercises that are still troublesome. Hopefully, there will be fewer such problems than the first time through. Redo these during your next study session, and so on. Eventually, you should be able to do ALL the problems without any aids. Remember that you cannot study chemistry without pencil and paper. Simply reading how to solve a problem is not enough to ensure you will be able to do the work on your own.
- If you need more practices, do and check some of the unassigned problems

## **EXTRA HELP**

The instructional staff of Chemistry 134 is committed to helping you succeed. If you have any questions, do not hesitate to come to office hours, stay after class, or send e-mail. The Learning Resource Center will be providing tutoring as well as help with learning strategies. We urge you to explore these avenues.